

Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(See several sheets if necessary)

Declarant Number (Optional)

Application Number

Applicant

Cao

Filing Date

2/5/02

Group Art. Div.

176.2

U.S. PATENT DOCUMENTS

EXAMINER NOTES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,205,134	3/13/2001	Kovac et al	433	29	10/20/98
	5,713,738	3/20/99	Yachemough	372	265	8/31/95
	6,714,368	7/3/2001	Yachemough	433	295	3/21/99
	6,321,111	12/18/2001	Cao	433	29	10/41/99
	4,321,904	8/21/98	Friedman et al	315	224	
	4,386,479	3/15/1997	Nanca III	423	239	
	4,825,955	8/15/1995	Murata	212	508	
	4,963,776	10/16/1990	McDermott	215	292	
	4,945,317	1/28/1991	Ostler	372	197	
	5,115,781	2/26/1992	Heed	118	641	
	5,123,645	6/23/1992	Vassilakos et al	433	215	
	5,181,479	11/19/1992	McDermott	382	294	
	5,214,658	5/25/1993	Ostler	372	25	
	5,233,281	6/25/1993	Kennedy	338	13	
	5,275,564	1/4/1994	Vassilakos et al	433	229	
	5,415,543	5/18/1995	Rosenwald Jr.	433	29	
	5,428,758	3/20/1995	Kennedy	362	119	
	5,472,981	10/3/1995	Schmitt et al	528	4	
	5,650,855	8/27/1999	Ostler	372	34	
	5,816,141	4/11/1997	Cipolla	486	15	
	5,883,728	9/8/1998	Talmonstein	423	28	
	5,908,264	12/8/1999	Ostler et al	528	4	
	5,920,015	8/29/2001	Jarler et al	359	389	
	5,934,711	6/3/1997	Kennedy et al	382	118	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Published PCT Patent Application PCT/US99/01126 (WO 99/35995) (22 July 1999)

EXAMINER

DATE CONSIDERED

3/21/04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)

Application Number

Applicant

Cap

Filing Date

Group Art Unit

1767

3000 U.S. PTO
10/07/2302

02/05/02

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

OTHER DOCUMENTS (Including Author, Title, Date, Patent Pages, Etc.)

3M ESPE Introduces New LED Curing Light (2 pages) (printout from cms.3m.com)

No date

NRG L.E.D. Curing Light brochure (4 pages).

No date

EXAMINER

DATE CONSIDERED

3/2/04

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Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Serial Number (Optional)

Application Number

Applicant

Class

Filing Date

Group Art Unit

 JCS99 U.S. PTO
10/072302

02/05/02

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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OTHER DOCUMENTS

(Including Abstracts, Titles, Drawings, Patent Pages, Etc.)

**Unless indicated otherwise - No dates available for these documents*

			"All-Cure Standard and Custom Dental Curing Lightguides" (1 page) (Printout from www.all-cure.com)			1999
			"Welcome to Bonart Medical Supply" (2 pages) (printout from www.bonartmed.com)			no date
			"Bonart" (4 pages listing dental equipment including ART-L1 'High Power Light Curing Unit') (printout from www.bonartmed.com)			no date
			"Dentamerica - Lilex" (2 pages discussing Lilex 680A, Lilex 682, and Lilex 692 curing lights) (printout from www.dentamerica.com)			no date
			"Problems with the Apollo E curing light" (1 page article) (printout from www.imakenews.com)			2001 - no date
			"Bellini X Ray" (2 pages depicting Sunlite 1275 curing light) (printout from www.bellinixray.com)			
			"ACTA CURING LIGHT" (2 pages) (printout from www.amadent.com)			
			"Laser Technology in Dentistry" (3 pages) (printout from dentistry.about.com)			May 1999
			"Synopsis of Visible Light Curing Units" (8 pages summarizing various curing lights) (printout from www.brooks.af.mil)			
			"Zap Dual Curing Light" (2 pages) (printout from www.brooks.af.mil)			
			"Vivatrix II Cordless Polymerization Unit" (2 pages) (printout from www.brooks.af.mil)			
			"VersaLux Cordless Curing Light" (2 pages) (printout from www.brooks.af.mil)			
			"Variable Intensity Polymerizer Light Curing Unit (VIP)" (3 pages) (printout from www.brooks.af.mil)			
			"Spectrum 800 Curing Unit" (2 pages) (printout from www.brooks.af.mil)			
			"Optilux 501 Polymerization Unit" (2 pages) (printout from www.brooks.af.mil)			
			"Optilux 500 Polymerization Unit" (2 pages) (printout from www.brooks.af.mil)			
			"Optilux 180 & 360 Polymerization Units" (2 pages) (printout from www.brooks.af.mil)			
			"Hitux 350 Curing Light" (2 pages) (printout from www.brooks.af.mil)			
			"Epilux Highlight Curing Light" (2 pages) (printout from www.brooks.af.mil)			
			"Apollo 95E Curing Light" (2 pages) (printout from www.brooks.af.mil)			
			"ARC Light II" (2 pages) (printout from www.brooks.af.mil)			

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DATE CONSIDERED

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Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Docket Number (Optional)	Application Number
	Applicant <u>Cap</u>	
	Filing Date	Group Art Unit <u>1762</u>

35028 U.S. PTO
10/072302

02/05/02

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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unless indicated otherwise - NO DATES available for these documents, but are before

OTHER DOCUMENTS

(including Author, Title, Date, Patent No., etc.)

<i>1998</i>			"LumaLite Luma 8, LumaArch, LumaCure" (4 pages) (printout from www.luma-lite.com)			<i>1999, no month</i>
			"Curing Light XL 3000" (3 pages) (printout from www.brooks.af.mil)			
			"LumaCure Cordless Curing Light" (2 pages) (printout from www.brooks.af.mil)			
			"Compo-T VLC Visible Light Cure Composite Dental Restorative Materials" (4 pages) (Printout from www.yates-motoid.com)			
			Bayne et al, "Update on dental composite restorations", JADA, vol. 125, June 1994, pages 687-701.			
			"Accucure 3000" brochure (2 pages)	<i>1995 - no month</i>		
			"Accucure 1000" brochure (2 pages)	<i>July 1995</i>		
			"LaserMed AGD Show Special AccuCure 3000 Laser Show Special flyer (1 page)			
			"LumaCure" flyer (1 page).			
			"ARC Light III" brochure (2 pages).			
			"Introducing the Apolloflight wireless curing light" flyer (1 page).			
			"Just Cure It" brochure (3 pages) (printed out from www.airtechniques.com)			
			"Resin Curing Lights: What You Should Know", page 36 from Contemporary Esthetics and Restorative Practice, November, 2001.			
			"Starlight Starlight p" flyer (1 page).			
			"Exelite" flyer (1 page)			
			"Epilux FreeLight" flyer (1 page).			
			"Centrix, Introducing VersaLux the world class battery operated LED curing light that fits in the palm of your hand (July-August 2001) (1 page)			
			"ZAP Dental Curing" flyer (1 page)			
			"EXELITE" flyer (1 page)			
			"Elipar FreeLight Curing Light" (2 pages) (printout from cms.3m.com)			<i>3 M ESPE Universal Steps</i>
			"Intraoral Resin Curing Lights - Update '96" excerpt from March 1996 CRA newsletter (2 pages).			

EXAMINER <i>[Signature]</i>	DATE CONSIDERED <i>3/21/04</i>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 806; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449		Docket Number (Optional)	Application Number
INFORMATION DISCLOSURE CITATION IN AN APPLICATION <small>(Use several sheets if necessary)</small>		JC828 U.S. PTO 10/072302	
		Applicant: <i>Can</i>	
		Filing Date:	Group Art Unit: <i>1762</i>

02/05/02

10/1/2004
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	TITLE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
			<i>under indicate as follows - NO DATES are available for these documents, but they are</i>			

OTHER DOCUMENTS (Including Author, Title, Date, Patent Pages, Etc.)

<i>MSF</i>			"Savings on Curing Lights from Lone Star Dental Corp.", including First Medica Hilux 200, Spring Health Powerlite and Dentamerica Lilux (1 page) (printout from www.dentalcorp.com).
			"LED Curing Light" from TOESCO Yoshida Tool Engineering Co., Ltd. (October 2001).
			"Dental/Medical Diagnostic Systems, Inc. Receives \$4.0 Million Order for Its Wireless Apollo e and Wavelength Curing Units Based on New LED Technology" (2 pages) (printout from www.compoundsemiconductor.net).
			"Heat Data" (2 pages) (regarding rise in tooth pulp temperature with various curing lights).
			"Comparison to Other Curing Lights" (2 pages) (printout from www.cranews.com)
			"Curing Performance" (4 pages) (printout from www.cranews.com)
			"Technical Data" (3 pages) (printout from www.cranews.com)
			"Photographs" depicting Virtuoso curing light (printout from www.cranews.com)
			Caughman, et al., "In Vitro Intrapulpal Temperature Rise with a Variety of Light Sources" (1 page).
			Bouschlicher, et al., "Intrapulpal Temperature Increases with LED, QTH and Arc Photoinitiation" (1 page).
			Mayer et al., "Decrease in Power Output of Blue LD Curing Lights with Increasing Distance to Filling Surface" (1 page).
<i>LED -</i>			Parr et al., "Spectral Analysis of Commercial LED Dental Curing Lights" (1 page)
			CRA Newsletter, Vol. 20, Issue 3, "Intraoral Resin Curing Lights", (March 1995) (2 pages).
			CRA Newsletter, "Resin Curing Light, Cordless" (2 pages).
			CRA Newsletter, "Visible Curing Lights" (4 pages).
			"Power PAC" (3 pages) (printout from www.american-dental-tech.com)
			"The PAC" (2 pages) (printout from www.american-dental-tech.com)
			"The Science of Curing" (8 pages) (printout from www.lasemed.com)
			"The Accucure 1000" (2 pages) (printout from www.lasemed.com)
			"The Accucure 3000" (2 pages) (printout from www.lasemed.com)
<i>MSF</i>			"Remedure CL15" (1 page) (printout from www.remedent.com)

EXAMINER	<i>3/21/04</i>	DATE CONSIDERED	<i>MSF</i>
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Room 108

Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number (Optional)

03761.040/5061.9c

Application Number

10/072,317,002

Applicant's Cite

Filing Date 02/05/02

Group Art Unit

1762

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

<i>[Signature]</i>	Guido Geroset, Giovanni Mori, Luca Cesa de Marfisi, "Curing light intensity and marginal leakage of resin composite restorations", <i>Quintessence International</i> , volume 27, number 5/1995 (6 pages) <i>NO MATCH</i>
<i>[Signature]</i>	Hironaka Kato, "Relationship between the velocity of polymerization and adaptation to dental cavity wall of light cured composites", <i>Dental materials journal</i> 8(1):32-37 (1987) (6 pages) <i>NO MATCH, but all in April 8</i>
<i>[Signature]</i>	Uno, S., Akamatsu, B., "Selected variables in bonding to dentin", <i>Scand. J. Dent. Res.</i> 1989; 100: 130-3 (3 pages) <i>NO MATCH</i>
	G.L. Underbrink and R. Muessem, "Influence of light intensity on two restorative systems", <i>J. Dent.</i> , vol. 25, no. 5, pp. 193-199 (1997) (7 pages) <i>NO MATCH</i>

EXAMINER

[Signature]

DATE CONSIDERED

3/21/04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 809; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

PTO/SAB (Rev.)



Sheet 2 of 8

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Cocket Number (Optional)

Application Number

03761.040/5061.9a 10/072,302

Applicant Cso

Filing Date 02-05-02

Group Art Unit

1762

U.S. PATENT APPLICATIONS

EXAMINER SERIAL	SERIAL NUMBER	FILING DATE	Title	Inventor	
	10060,489	February 23, 2002	Light-Curing Device with Detachably Interconnecting Light Application	Don E. Fletcher, DDS Bruce S. McLean	
	10060,397	February 6, 2002	Curing Light with Flexibility of LED's and Corresponding Lenses	Don E. Fletcher, DDS Bruce S. McLean	
	10060,103	February 8, 2002	Lightweight Hand Held Dental Curing Device	Don E. Fletcher, DDS Bruce S. McLean	
	10060,346	January 11, 2002	Optical Lens Used to Focus LED Light	Bruce S. McLean Vickily Hesse	
	10024,110	December 17, 2001	Heat Sink with Geometric Arrangement of LED Surfaces	Robert R. Scott	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Patent Pages, Etc.)

E-mailed from Jane Jenkins (jjenkins@vmeagel.com) to Don McCutty Re: Pending Application Information dated Wednesday, April 03, 2002 (2 pages) and listing 5 pending U.S. patent applications.

EXAMINER

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Sheet 38

Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)

Application Number

03761.040/5061.9a

10/072,302

Applicant Class

Filing Date 02/05/02

Group Art Unit

1762

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FLING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
DE 25 57 920 B2	3/20/1990	Germany	A61C 5/04	X			X
DE 25 27 260 A1	3/28/1990	Germany	A61H 5/04				X
1 576 087	12/8/1978	Great Britain	A61H 5/06			X	
6 538 841 B1	2/11/1999	European Patent Specification	C08F 3/50			X	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

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3/21/04 H.A. PUA

DATE CONSIDERED

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Sheet 4 of 8

Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)

03761.040/50661.9a

Application Number

10/072,302

Applicant

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Filing Date

12/05/02

Group Art Unit

1762

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

OTHER DOCUMENTS

(Including Author, Title, Date, Patent Pages, Etc.)

MS A. Mehl, H. Staunsau, D. Schreyer, K.H. Kunzelmann, R. Hickel, LMU University Dental School, D-80336 Munich Germany, 1 page abstract, Journal of Dental Research, vol. 74, 1995, special issue p. 462. *No match*

Sakaguchi and Berge, "Light Intensity Effects on Degree of Cure Posterior Composite", #1972, IADR 1997 (4 pages). *No match*

1 Shigero Uno and Erik Asmussen, "Marginal Adaptation of A Restorative Resin Polymerized At A Reduced Rate" (5 pages). *No date but after 12/2/90*

1 Peter Koran & Ralf Kurschner, "Effect of sequential versus continuous irradiation of a light cured resin composite on shrinkage, viscosity, adhesion, and degree of polymerization, CE Article #3-196, American Journal of Dentistry, vol 11, No. 1, February 1998 (8 pages).

1 A. Mehl, R. Hickel, K.H. Kunzelmann, Dental School Munich Germany, "Physical properties and gap formation of light cured composites with and without softstart-polymerization" faxed copy dated May 30, 1996 (27 pages).

1 K.J. Reinhardt and J. Vahl, "Uncertainties in the Testing of Photopolymers" 11 pages. *No date but after 7/24/2000*

1 A.J. Felzler, L.H. Dooren, A.J. de Gee, and C.L. Davidson, "Influence of light intensity on polymerization shrinkage and integrity of restoration cavity interface", Eur. J. Oral Sci. 1995; 103: 322-326 (5 pages). *No match after manual*

MS A. Mehl, M. Sobota, R. Hickel, "Soft start polymerization of composites in class V cavities" (10 pages). (FAXED 7/24/00)

Sailha S. Davidson-Kaban, Carol L. Davidson, Albert J. Felzler, Anton J. de Gee, Nejdiet Erdtiek, "The effect of curing light variations on bulk curing and wall to wall quality of two types and various shades of resin composites", Dent Mater 12:344-352, November 1997 (9 pages)

EXAMINER

DATE CONSIDERED

3/21/04



Form PTO-1

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use separate sheets if necessary)

Docket Number (Optional)

Application Number

03761.040/5061.8a

10/072,302

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Filing Date 02/05/02

Group Art Unit 176.2

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Letter from John Vickers, III, General Counsel to American Dental Technologies, to Daniel McCarthy dated May 2, 2000.

Letter from Dr. Roland Brem of ESPE Dental AG to Daniel McCarthy dated May 11, 2000.

Letter from Dr. Roland Brem of ESPE Dental AG to Daniel McCarthy dated may 31, 2000.

Letter from Dr. Roland Brom of ESPE Dental AG to Daniel McCarthy dated June 8, 2000.

Facsimile dated Friday, May 29, 1998 from Dr. Frederick M. Parkins of the School of Dentistry, University of Louisville to Bob Dalton of ADT regarding final draft sent to Tony Angelini (6 pages).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with NPEP § 628; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.





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Sheet 8 of 9

Form PTO-

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

*Not on 2 person
- Computer can read
to transfer to EAST*

Docket Number (Optional)

03761.040/5061.9a

Application Number

10/072,302

Applicant

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Filing Date

02/15/02

Group Art Unit

1762

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILED DATE IF APPROPRIATE
	6,328,458	12/11/2001	Ma	362	311	304/2000
	6,356,788	3/27/2001	Nasir	368	131	7/28/1998
	6,356,134	3/13/2001	Kovac et al	433	38	1/20/1998
	6,183,353	3/15/2000	Fischer	432	186	8/15/2000
	6,588,520	08/20/00	Shenoy	658	2	8/30/1999
	6,089,740	7/18/2000	Porehnd et al	365	613	1/8/1996
	6,008,264	12/28/1999	Orler et al	822	4	4/28/1996
	5,912,470	8/10/1999	Elbafar et al	259	504H	
	5,960,293	8/11/99	Kawata	433	28	
	5,909,284	8/11/99	Schick et al	433	28	
	5,787,740	8/25/1998	Laschke	433	28	
	5,751,199	8/11/1998	McIsaac	433	28	
	5,782,560	7/27/1998	McDonnell	362	345	
	5,711,848	10/27/1998	Adem et al	433	9	
	5,680,441	8/26/1997	Ignatius et al	362	241	
	5,821,382	5/29/1996	Kennedy et al	358	482.1	
	5,485,517	1/18/1996	Pertalotto et al	358	712	
	5,457,811	10/10/1995	Verdier	382	32	
	6,356,834	9/27/1994	Boheath et al	628	463	
	6,348,552	9/20/1994	Nakajima et al	499	13	
	5,238,744	8/24/1993	Williams et al	438	452	
	5,191,520	9/28/1992	Gotschalk et al	548	195	
	5,138,495	9/18/1992	Belluccone	688	17	
	4,838,776	6/28/1990	Kowalski	433	229	
	4,830,588	6/13/1988	Harold et al	31	368	
	4,686,730	10/6/1987	Ekai et al	362	311	
	4,568,120	12/29/1981	Perennes et al	204	158.23	
	4,381,364	7/28/1981	Wurster et al	362	32	
	4,229,654	10/21/1980	Gosner	260	504	
	4,164,195	1/12/1980	Marat et al	433	28	
	4,184,285	6/10/1979	Nash	259	564	

Not yet considered

OTHER DOCUMENTS (Including Author, Title, Date, Portion Pages, Etc.)

EXAMINER

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DATE CONSIDERED

3/6/04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 906; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.